San Francisco Bay Area Regional ITS Plan

Stakeholder Workshop #2

Kimley-Horn and Associates, Inc.

Metropolitan Transportation Commission
MTC Auditorium, MTC, 101 Eighth Street,
Oakland, California 94607
9:00 AM – 12:00 PM or 1:00 PM – 4:00 PM
05/10/2007

Welcome

- Introductions
  - Pierce Gould, MTC
  - Melissa Hewitt, Kimley-Horn and Associates, Inc.
  - Alyssa Phaneuf, Kimley-Horn and Associates, Inc.
  - Bruce Eisenhart, ConSysTec
  - Trevor Harris, ConSysTec

Today's Agenda

- Overview of Today's Workshop
- Bay Area Regional ITS Vision & Goals
- ITS Service Category Priorities
- Bay Area Regional ITS Plan Update Status
- Update Interconnects and Information Flows
- Update Interagency Agreements
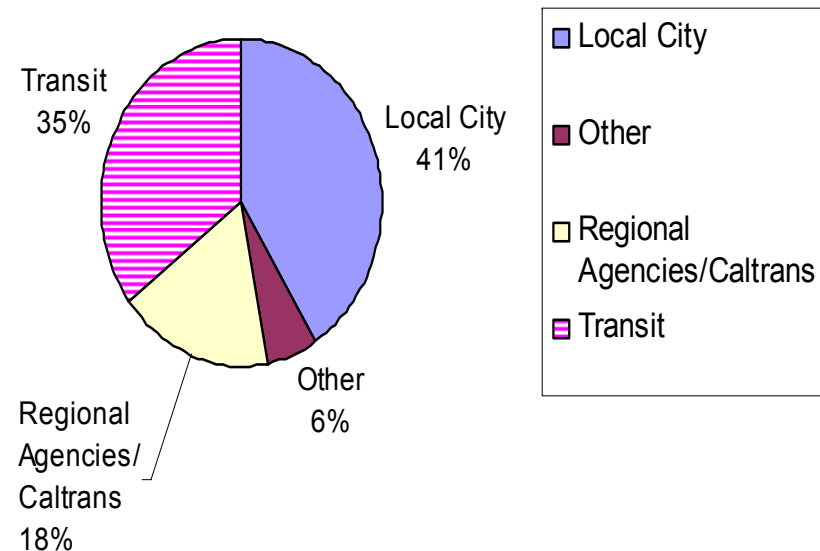- Questions and Next Steps

Goals, Vision, and Priorities

Development:

- Previous ITS Plan
- Stakeholder Workshop #1
- Steering Committee
- Stakeholder input
- Survey results
  - 17 agencies
  - Cross section of all major groups of stakeholders

Survey Respondents

Transit 35%

Local City 41%

Other 6%

Regional Agencies/ Caltrans 18%

Legend:
- Local City
- Other
- Regional Agencies/Caltrans
- Transit

Bay Area Regional ITS Goals

1. Improve reliability of the transportation system   (100% ranked #1 priority)
2. Reduce congestion in major corridors
3. Improve safety and security of motorists and transit users. Ensure effective transportation operations during emergencies
4. Expand travel options (travel modes, routes, and time) through the use of traveler information
5. Integrate the needs of the goods movement industry into transportation decisions
6. Improve the security of transportation facilities

RTP – Transportation 2030 Goals

- Safety
- Reliability
- Access
- Livable Communities
- Clean Air
- Efficient Freight Travel

ITS Issues in the Bay Area

Issues identified at the previous workshop include:

- Duplication of ITS services
- Interoperability of ITS projects
- Regional policy for O&M
- Explore funding policies that reward integration
- Training opportunities for local agencies
- Need advocates to acquire funding (i.e. bicycle/ped.)

ITS Service Category Priorities

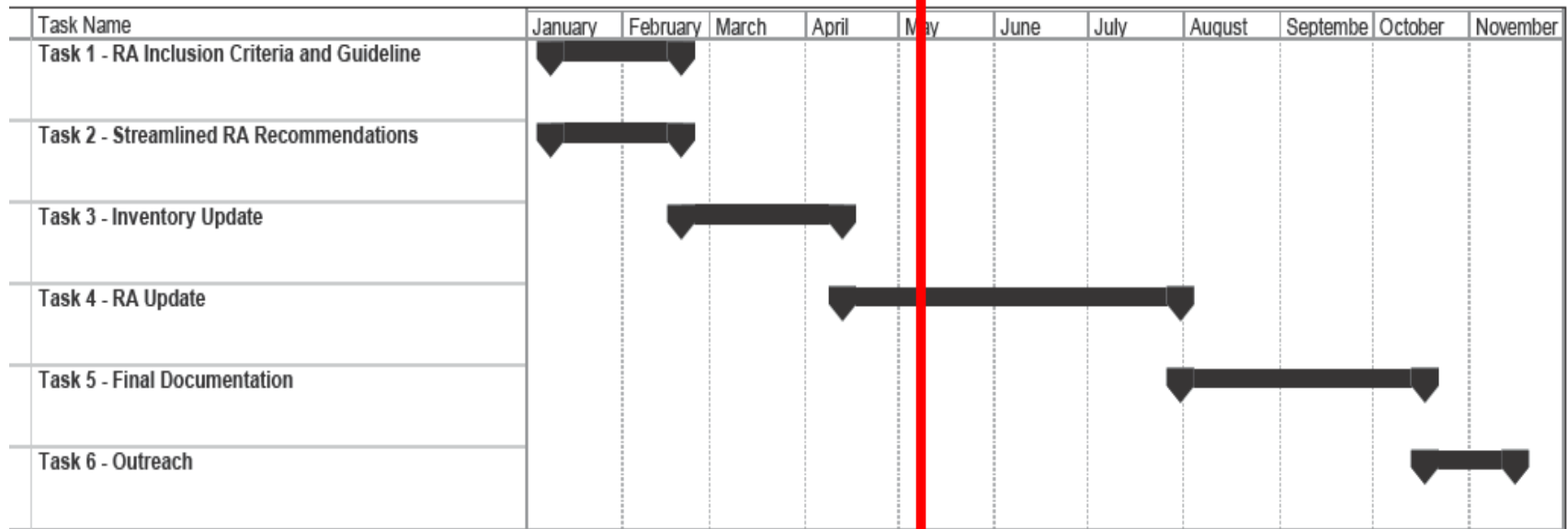| ITS Service	Example	Priority
Surface Street Traffic Management	Signal coordination, parking management, railroad crossing management	H
Freeway Traffic Management	Traffic detection, ramp metering, HOV management, electronic toll collection	H
Traveler Information	Pre-trip, en-route, carpool information, events alert, traffic forecast	H
Transit Operation	Automated vehicle location system, automated passenger counter and fare collection devices, transit vehicle priority at intersection, transit facility security	H
Transit Information	Transit vehicle arrival time, transit trip planning tool, dynamic transit transfer information	H
Incident Management	Incident detection, incident information dissemination, dynamic route for incident response vehicles, roadway service patrol	H

ITS Service	Example	Priority
Emergency Management	Emergency condition notification, disaster response or evacuation	H
Roadway Operations & Maintenance	Road closure/construction information dissemination, work zone management	M
Commercial Vehicle Operations	Weight monitoring, electronic screening, security, tailored information, HAZMAT management	L
Road Weather Management	Information dissemination, response and treatment	L

Bay Area ITS Plan Update Status

Task Name	January	February	March	April	May	June	July	August	Septembe	October	November
Task 1 - RA Inclusion Criteria and Guideline	████	████									
Task 2 - Streamlined RA Recommendations	████	████									
Task 3 - Inventory Update		██	████								
Task 4 - RA Update				██	████	████	████	██			
Task 5 - Final Documentation								██	████	████	
Task 6 - Outreach										██	██

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Select Agency Name:

Lead Agency	
Caltrans	
MTC	
Pleasanton	
San Jose	
Santa Rosa	

If your project is not listed by name, select the project category:

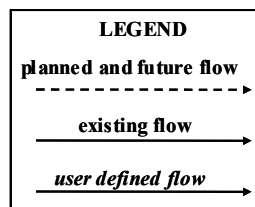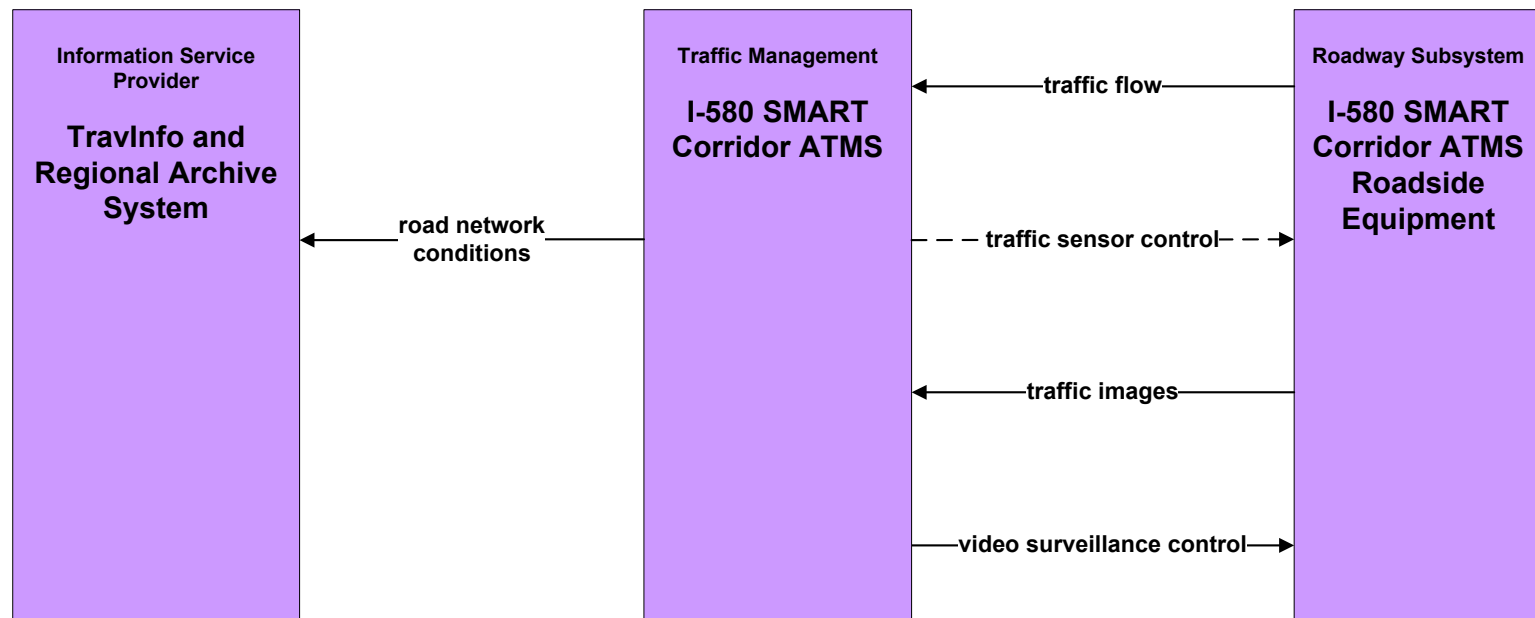| ITS Category	Project Description	
Signal Control	Conduct projects to update signal timing, coordination, and synchronization	
TMC	Develop and implement local TMCs/TOCs	
Corridor Management	Integrate Smart Corridors throughout the Bay Area with other local systems to allow for coordinated operations	

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Pleasanton Projects

Select Project Description:

Lead Agency	Project Description	
Pleasanton	City of Pleasanton Traffic Signal System	
Pleasanton	City of Pleasanton Video Detection	
Pleasanton	I-580 Smart Corridor	

Project Representation in Plan

ATMS01 - Network Monitoring
I-580 SMART Corridor ATMS

Information Service Provider

TravInfo and Regional Archive System

Traffic Management

I-580 SMART Corridor ATMS

Roadway Subsystem

I-580 SMART Corridor ATMS Roadside Equipment

traffic flow

road network conditions

traffic sensor control

traffic images

video surveillance control

LEGEND

planned and future flow

existing flow

user defined flow

Projects will appear by Agency Name and Description in the ITS Plan

Lead Agency	Project Description	
Caltrans	El Camino Real Signal Interconnect	
MTC	511	
Pleasanton	I-580 Smart Corridor	
San Jose	San Jose Smart Intersection	
Santa Rosa	Traffic Management Center	

Projects not listed by name can also be found in the ITS Plan

ITS Category	Project Description	
Signal Control	Conduct projects to update signal timing, coordination, and synchronization	
TMC	Develop and implement local TMCs/TOCs	
SMART Corridor	Integrate Smart Corridors throughout the Bay Area with other local systems to allow for coordinated operations	

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Project Diagrams - Example

Corridor Management   -   SMART Corridor

Information Service Provider	road network conditions	Traffic Management	Video surveillance	Roadway Subsystem

Regional Archive System

Corridor ATMS

Traffic Sensor Control

Traffic Flow

Traffic Images

ATMS Roadside Equipment

LEGEND

planned and future flow

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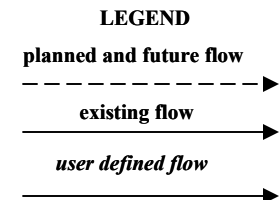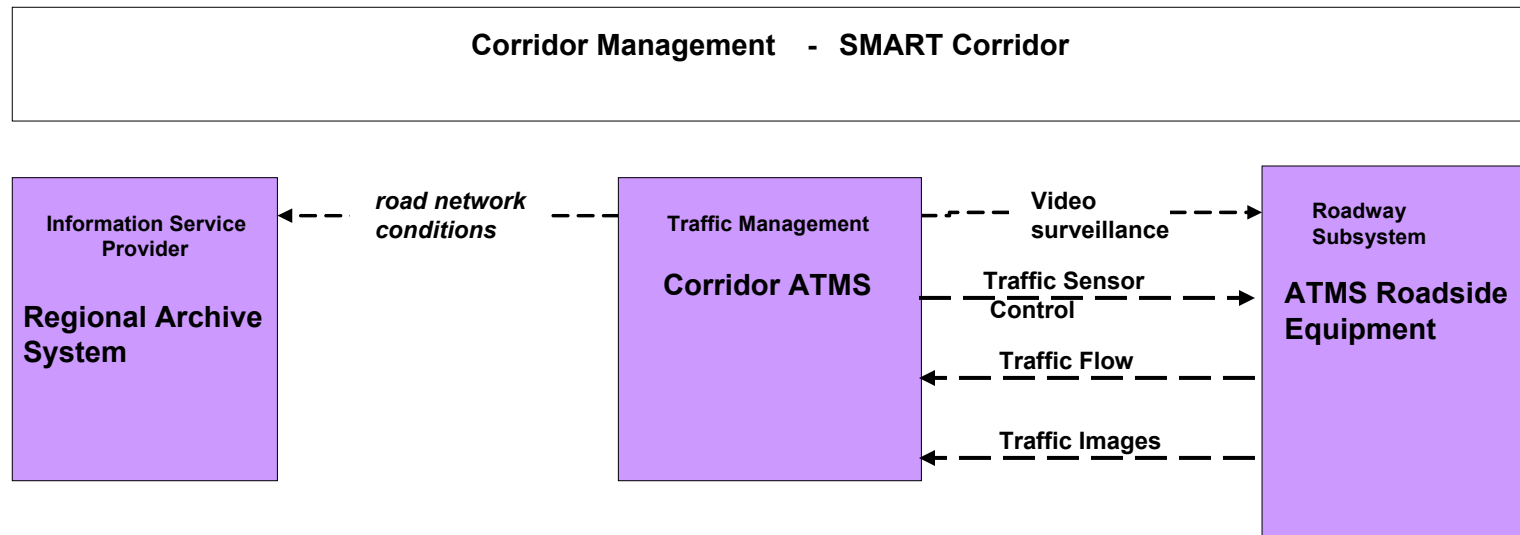
Update Interconnects and Information Flows

- Update existing and proposed information sharing between ITS projects
- Revised interconnect diagrams will be posted on the MTC website for review
- Stakeholders will have 3 weeks to provide comments/changes

Existing Interagency Agreements

- Traffic Management involving multiple jurisdictions and agencies
- Transit or emergency vehicle signal privileges
- Common regional fare collection & management
- Traveler information
- Archived data management
- Shared use of communication infrastructure
- Corridor agreements

Next Steps

- Interconnect diagrams will be posted on the MTC website for a 3 week stakeholder review.

- Draft Regional ITS Plan posted for review in August

- Two "executive" summaries (technical and policy-maker)

- Outreach of the final plan will include a "How to Use" the Plan for planning and procurement staff

Questions and Comments

- Find additional information at *http://mtc.ca.gov/planning/ITS/ITS_update.htm*

- Email your questions to *Bayarch.update@kimley-horn.com*

METROPOLITAN TRANSPORTATION COMMISSION